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## BATH COUNTY

### (Bath County Water Service Area Map)

- Estimated 1999 population of 10,300--80% on public water
- Estimated 2020 population of 10,900--81% on public water
- 245 miles of water lines, with plans for 12 additional miles
- Estimated funding needs for public water 2000-2005--\$8,050,000
- Estimated funding needs for public water 2006-2020--\$1,750,000

Bath County had an estimated population of 10,347 (4,307 households) in 1999 with a projected population of 10,853 (4,872 households) in 2020. Public water is provided to 3,625 customers, or about 80 percent of the county's residents. In areas of the county not served by public water, about 56 percent of the households rely on private domestic wells and 44 percent of the households rely on other sources. About 67 customers will be added to public water service through new line extensions in 2000-2020.

#### *Estimated Costs - Proposed Projects, 2000-2005*

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
<b>BATH</b>								-
Owensville				2,000	2,000	4,000		8,000
Bath Co. W/D	1	16	50					50
<b>Total</b>	<b>1</b>	<b>16</b>	<b>50</b>	<b>2,000</b>	<b>2,000</b>	<b>4,000</b>		<b>8,050</b>

#### *Estimated Costs - Proposed Projects, 2006-2020*

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	In \$1000	in \$1000
<b>BATH</b>								-
Owensville								-
Bath Co. W/D	11	51	995				755	1,750
<b>Total</b>	<b>11</b>	<b>51</b>	<b>995</b>				<b>755</b>	<b>1,750</b>

### PUBLIC WATER SYSTEMS

Bath County is served by 3 community water systems: 1 municipal, Owensville Water Works; 2 water districts, Bath County Water District and Sharpsburg Water District.

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# WATER SERVICE AREAS

## BATH COUNTY

### Kentucky

*Prepared By:*  
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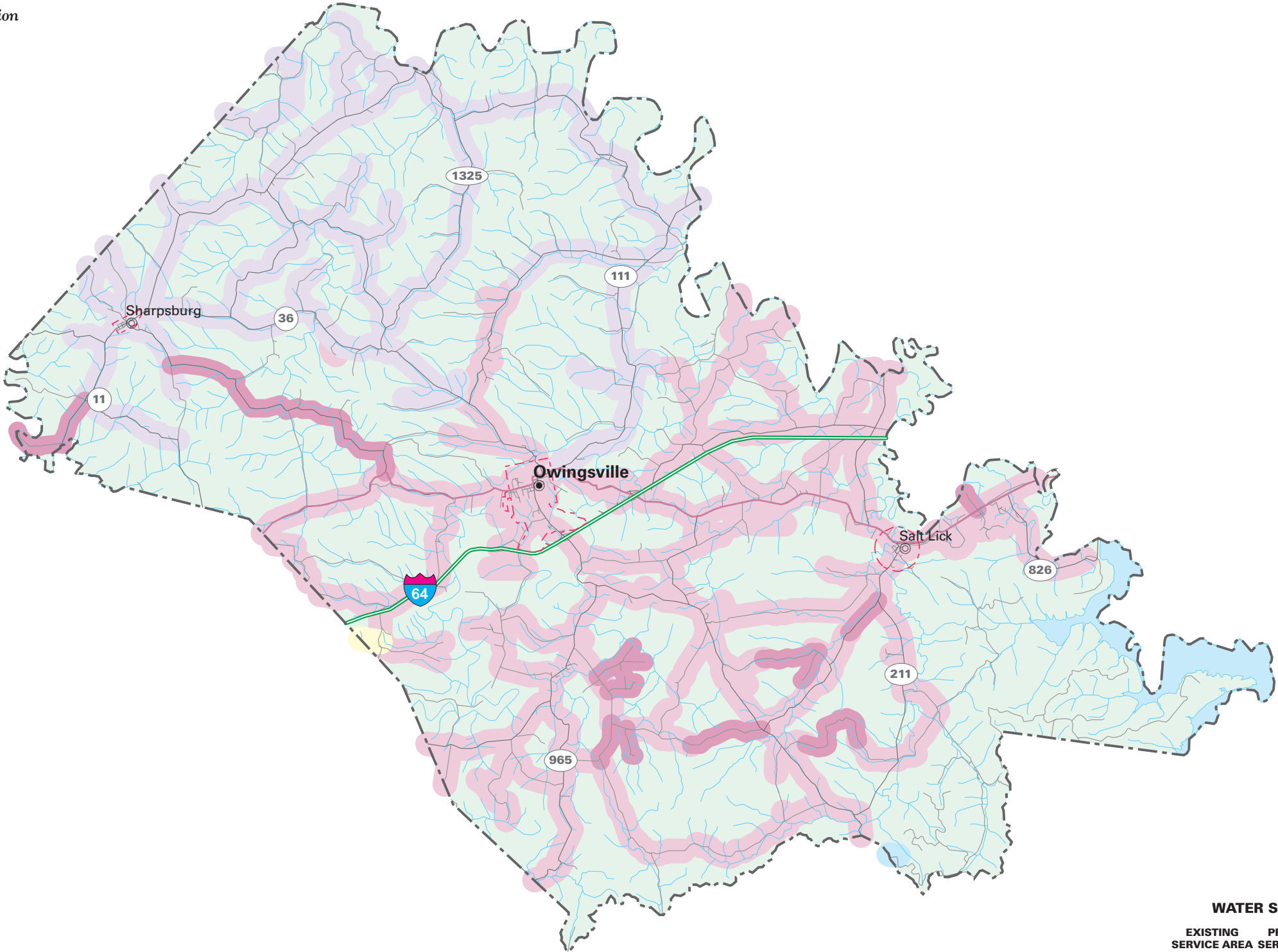
Bob Arnold, Chairman  
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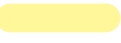
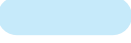



Data Collection & GIS Input By:  
Kentucky Area Development Districts



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#### WATER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	
		SHARPSBURG WATER DISTRICT
		MOUNT STERLING WATER WORKS
		FRENCHBURG WATER COMPANY
		BATH COUNTY WATER DISTRICT



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### **BATH COUNTY WATER DISTRICT**

PWSID: ..... 0060022  
System Type:..... COMMUNITY  
Owner Type:..... WATER DISTRICT  
Surface Source:  
Purchase Source: ..... BATH COUNTY WATER  
Well Source:  
Sells Water to: ..... SHARPSBURG WATER DISTRICT  
Treatment Plant Capacity (MGD):..... 0.00  
Percent Daily Average Production:..... 0.00  
Total Tank Storage Capacity (gallons): ..... 100,000.00  
Total Service Connections: ..... 2,775.00  
Number of Employees:..... 7.00  
Treatment Operator Class: ..... 2D  
Distribution Operator Class:  
Customer Rate for 1,000 Gallons:..... 3.24  
O/M costs 1997:..... 497,199.00  
O/M costs per Service Connection: ..... 189.12  
Net Revenue 1997:..... 10,366.00  
Total Water Produced 1997 (gallons):..... 0.00  
Water Sold 1997 (gallons):..... 288,992,000.00  
Unaccounted-for Water 1997 (%): ..... 8.40

### **OWINGSVILLE WATER WORKS**

PWSID: ..... 0060338  
System Type:..... COMMUNITY  
Owner Type:..... MUNICIPAL  
Surface Source: ..... SLATE CREEK  
Purchase Source:  
Well Source:  
Sells Water to: .....  
Treatment Plant Capacity (MGD):..... 1.00  
Percent Daily Average Production:..... 53.00  
Total Tank Storage Capacity (Gallons): ..... 300000.00  
Total Service Connections: ..... 852.00  
Number of Employees:..... 5.00  
Treatment Operator Class: ..... 2D  
Distribution Operator Class:..... 2A  
Customer Rate for 1,000 Gallons:..... NA  
O/M costs 1997:..... NA  
O/M costs per Service Connection: ..... NA  
Net Revenue 1997:..... NA  
Total Water Produced 1997:..... NA  
Water Sold 1997:..... NA  
Unaccounted-for Water 1997:..... NA

### **SHARPSBURG WATER DISTRICT**

PWSID: ..... 0060392  
System Type:..... COMMUNITY  
Owner Type:..... WATER DISTRICT

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Surface Source:  
Purchase Source: .....BATH COUNTY WATER  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD):..... 0.00  
Percent Daily Average Production:..... 0.00  
Total Tank Storage Capacity (gallons): ..... 100,000.00  
Total Service Connections: ..... 1,263.00  
Number of Employees:..... 3.00  
Treatment Operator Class: .....2D  
Distribution Operator Class:  
Customer Rate for 1,000 Gallons:..... 5.03  
O/M costs 1997:..... 254,893.00  
O/M costs per Service Connection: ..... 202.94  
Net Revenue 1997: ..... 18,294.00  
Total Water Produced 1997 (gallons):..... 0.00  
Water Sold 1997 (gallons):..... 67,472,100.00  
Unaccounted-for Water 1997 (%): ..... 11.43

## PRIVATE DOMESTIC SYSTEMS

About 2,000 residents of Bath County rely on private domestic water supplies: 1,150 on wells, and 850 on other sources.

Some wells located in the Licking River valley and the major creek valleys will produce enough water for a domestic supply except during dry weather. In the upland areas of Bath County, which encompasses 80% of the county, most drilled wells will not produce enough water for a dependable domestic supply except along drainage lines that may produce enough water except during dry weather.

Throughout the county ground water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.

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